

# RL4502/09 transmitter

## Pro RL4000 DP Series



Differential Pressure



Radio transmitter

Part of the **Hanwell Pro** RL4000DP Series, the RL4502 (no display) / RL4509 (LCD display) differential pressure transmitters with 434.075MHz frequency as standard.

### Features

- ✓ Wireless data transfer
- ✓ High performance technology with accurate sensors
- ✓ User accessible battery and USB socket
- ✓ Up to 2 years battery life
- ✓ Low power radio for long distance transmission
- ✓ Complies with RoHS, EU and WEEE directives
- ✓ Carries CE Marking

### Typical Applications

- Filter monitoring
- Air ventilation systems

Always ask for a long-range signal strength test.



We can prove ours to be unrivalled.



Photo shows: RL4502-457.600 (left), RL4509-457.600 (right) (other frequencies are available)

### Instrumentation specification

Dimension (Excl. ancillaries)	110 x 80 x 35mm
Weight	200 grams
Power supply	1 x 3.6V AA Lithium battery
Battery life	Up to 2 years (dependent on conditions of use and instrument settings)
Case material	ABS & PC
IP Rating	IP30
Instrument operating range	0°C to +50°C in a non-condensing RH environment
Storage temperature	-40°C to +60°C
Memory:	100000 readings

### Radio transmitter functions

Frequency options	A range of frequencies are available between 433-458MHz. Country specific regulations apply.
Radio power	10mW
Radio range	3km over open ground
Software required	W900 – Standard EMS Software Package W906 – Validated EMS Software Package *See EMS datasheet for further options
Software compatibility	<b>RL4502 and RL4509:</b> *EMS - All Versions <b>Synergy</b> - All Versions <b>RadioLog8</b>
Hardware required	CR2 / CR3 – Controller SR2 – Smart Receiver REP – Repeater

**\*IMPORTANT:** Customers with **EMS Version 1.0.8** should contact **Hanwell Technical Support (support.hanwell@ellab.com)** for advice before buying and ask them for the **Management Tools DP and Digital Patch for EMS patch.**

# Sensor (supplied with unit)

## Product codes

RL4502	+/-1250Pa
RL4509	+/-50Pa
Y119	Wall mounting bracket
Y055	USB communications lead
P106	Differential Pressure port mounting plate

## Internal pressure sensor      Miniature silicon sensor

For Part Code	RL4502
Probe operating range	+/- 1250 Pa (restricted by instrument operating range)
Accuracy (offset and linearity)	+/- 6.75 Pa in temperature compensated range 10°C and 30°C
Resolution	+/- 0.4 Pa
Pressure Connector	2 x 3.2mm outside diameter, 1.6mm inside diameter tube, 2m long
Long term drift	+/- 5Pa per year

*Note: Units purchased from July 2017 are not suitable for use with RadioLog. Specification applies to units supplied August 2017 onwards.*

## Internal pressure sensor      Miniature silicon sensor

For Part Code	RL4509
Probe operating range	+/- 50 Pa (restricted by instrument operating range)
Accuracy (offset and linearity)	+/- 1.5 Pa in temperature compensated range 10°C and 30°C
Resolution	+/- 0.4 Pa
Pressure Connector	2 x 3.2mm outside diameter, 1.6mm inside diameter tube, 2m long
Long term drift	+/- 1 Pa per year

*Note: Units purchased from July 2017 are not suitable for use with RadioLog. Specification applies to units supplied August 2017 onwards.*